



449

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Attorney Docket Number	34162/RJW
Application Number	09/443,527
Filing Date	November 19, 1999
Applicant(s)	Robert M.L. Baker, Jr., et al.
Group Art Unit	2834
Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Bm	2,719,944	10/1955	Brailsford	318	254	
Bm	2,814,769	11/1957	Williams	318	171	
Bm	3,612,630	10/1971	Rosensweig	308	10	
Bm	3,667,019	5/1972	Elliott, et al.	318	254	
Bm	3,903,463	9/1975	Kanamori	318	138	
Bm	3,959,700	5/1976	Sugiura, et al.	318	138	
Bm	4,035,658	7/1977	Diggs	290	55	
Bm	4,052,134	10/1977	Rumsey	416	119	
Bm	4,086,505	4/1978	McDonald	310	74	
Bm	5,398,571	3/1995	Lewis	74	572	
Bm	5,446,018	8/1995	Takahata, et al.	310	90.5	
Bm	5,646,728	7/1997	Coutsomitros	356	352	
Bm	5,831,362	11/1998	Chu, et al.	310	90.5	
Bm	5,929,579	7/1999	Hsu	318	439	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
Bm	GB1333343	10/1973	United Kingdom	B01D	3/06		

EXAMINER SIGNATURE	B. Mullin	DATE CONSIDERED	5-14-00
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OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
BM	J. Weber, "Gravitational Waves" in <i>Gravitation and Relativity</i> , Chapter 5, pp. 90-105 (W.A. Benjamin, Inc., New York, 1964)
BM	J. Weber, "Detection and Generation of Gravitational Waves", <i>Physical Review</i> , (1960) Vol. 117, Number 1, pp. 306-313.
BM	J. Weber, "Gravitational Radiation from the Pulsars", <i>Physical Review Letters</i> , (1968) Vol. 21, Number 6, pp. 395-396.
BM	Robert L. Forward and Larry R. Miller "Generation and Detection of Dynamic Gravitational-Gradient Fields", Hughes Research Laboratories, 8/5/1966, pp. 512-518.

EXAMINER SIGNATURE	May 14, 2000 <i>J Mullins</i>	DATE CONSIDERED	5-14-00
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE			

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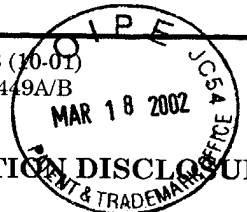
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Substitute for PTO-1449A/B



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Attorney Docket Number	40702/RJW/B596
Application Number	09/752,975
Filing Date	December 27, 2000
Applicant(s)	Robert M.L. Baker, Jr.
Group Art Unit	2834
Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - kind code ² . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)

OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
BM		GERTSENSHTEIN, M.E., "Wave Resonance of Light and Gravitational Waves" (1962), Soviet Physics JETP, Volume 14, No. 1, pp. 84-85.

EXAMINER SIGNATURE	B Mullins	DATE CONSIDERED	9-19-02
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Attorney Docket Number	40702/RJW/B596
Application Number	09/752,975
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Applicant(s)	Robert M.L. Baker, Jr.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned

OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
Bm	EINSTEIN, et al., "On Gravitational Waves", January 1937, pp. 43-54, Vol. 223, 1333-4
	BRUSTEIN, et al., "Relic gravitational waves from string cosmology", Physics Letters, November, 1995, pp. 45-51, B 361, Elsevier Science B.V.
	VALLISNERI, "Prospects for Gravitational-Wave Observations of Neutron-Star Tidal Disruption in Neutron-Star-Black-Hole Binaries", Physical Review Letters, April 17, 2000, pp. 3519-3522, Vol. 84, No. 16, The American Physical Society
	FLANAGAN, "Measuring gravitational waves from binary black hole coalescences. I. Signal to noise for inspiral, merger, and ringdown", Physical Review D, April 2, 1998, pp. 4535-4565, Vol. 57, No. 8, The American Physical Society
	PEGORARO, et al., "Electromagnetic Detector for Gravitational Waves", Physics Letters, October 2, 1978, pp 165-168, Vol. 68A, No. 2
	TOKUOKA, "Interaction of Electromagnetic and Gravitational Waves in the Weak and Short Wave Limit", November 1975, pp. 1309-1317, Vol. 54, No. 5, Progress of Theoretical Physics
	CHAKRABARTY, "Gravitational Waves: An Introduction", Physics/9908041, August 21, 1999, pp. 1-22, Mehta Research Institute, India
	LANDAU, et al., "The Classical Theory of Fields", 1975, pp. Cover, bibliography, 345-357, Fourth Revised English Edition, Pergamon Press
	BAKER, "Astrodynamics, Applications and Advanced Topics", Academic Press, 1967 pp. 376-393.
✓	PORTILLA, et al., "Generation of High Frequency Gravitational Waves", Departament d' Astronomia i Astrofísica, c/Dr. Moliner 50, 46100 Burjassot, Valencia, Spain, 2001, The American Physical Society, pp. 63 044014-1 to 044014-7.

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STATEMENT BY APPLICANT

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Attorney Docket Number

40702/RJW/B596

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Applicant(s)

Robert M.L. Baker, Jr.

Group Art Unit

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Examiner Name

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U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BM	4,546,264	10-1985	Pinson	290	54	
BM	5,514,923	5-1996	Gossler, et al.	310	74	
BM	5,721,461	2-1998	Taylor	310	268	

FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
BM	GRISHCHUK, et al., "Emission of gravitational waves by an electromagnetic cavity", February 1974, pp. 215-221, Vol. 38, No. 2, Sov. Phys.-JETP
↓	BRAGINSKII, et al., "Electromagnetic detectors of gravitational waves", May 1974, pp. 865-869, Vol. 38, No. 5, Sov. Phys.-JETP
↓	BAKER, "Preliminary Tests of Fundamental Concepts Associated with Gravitational-Wave Spacecraft Propulsion", AIAA Space 2000 Conference & Exposition, September 20, 2000, pp. 1-26 and pp. 1-5A (Addendum), Paper No. 2000-5250, American Institute of Aeronautics and Astronautics, Inc.

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